



The Perspectives of Establishing Global Geospatial Information Reflected on Emerging Trends

IM, Joo-bin

Director-General
National Geographic Information Institute(NGII)
Republic of Korea

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Emerging Trends in Geospatial Information



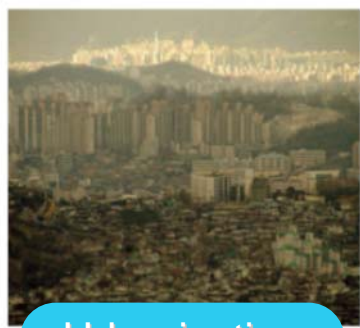
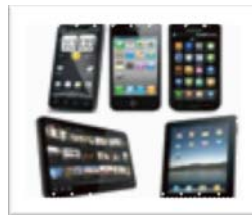
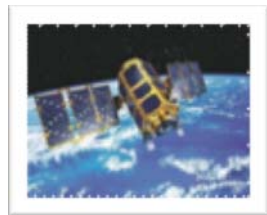
To cope with global challenges...



“Smart Society”



Advances in technology



Urbanization



Natural Disaster

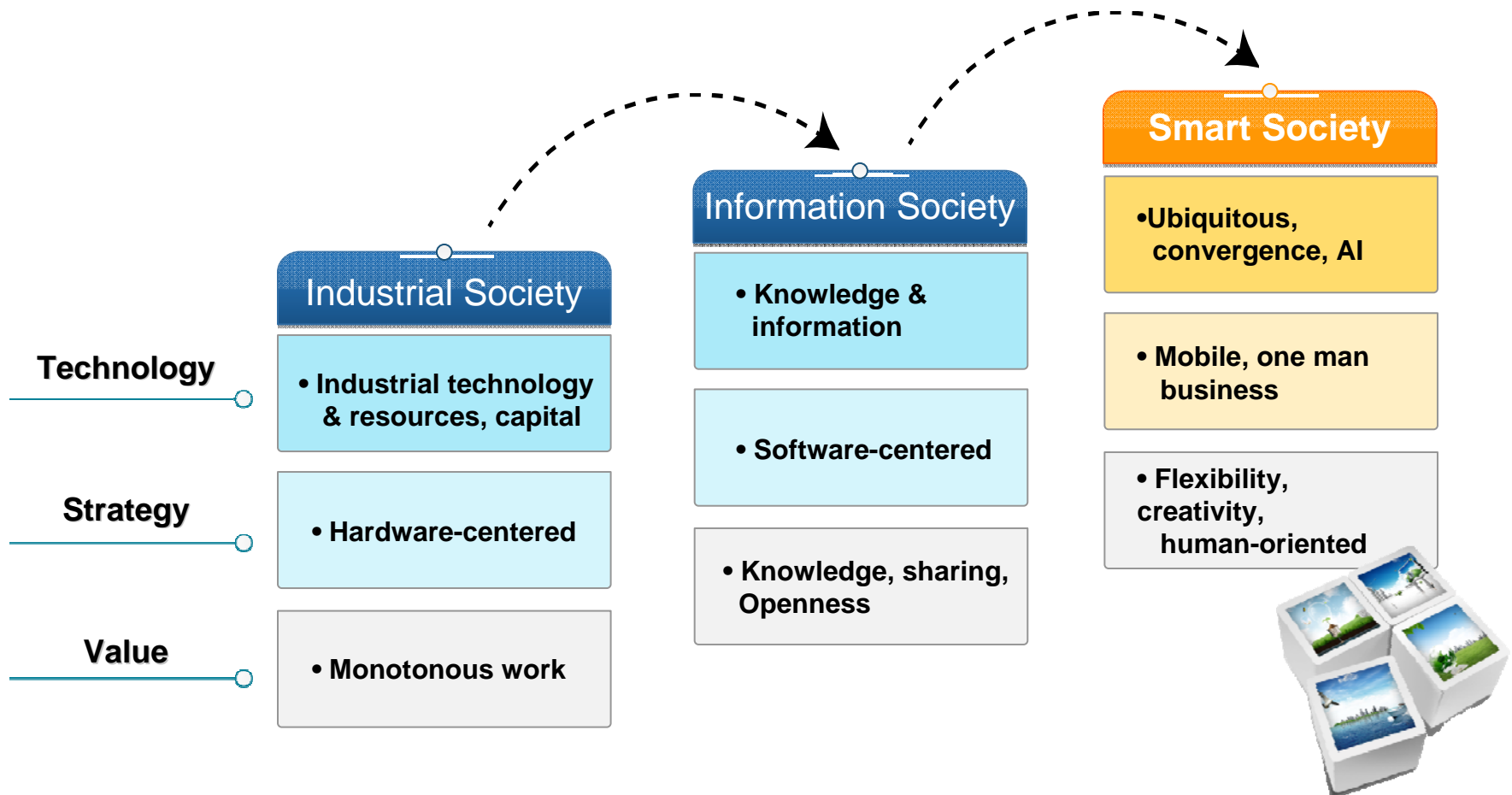


Global Warming

Wind of Change to 'Smart'



“Smart Society”, Mega Trend leading the Social Paradigm Shifts!



The importance of geospatial information

Toward Smart Society

Data Infrastructure

Geospatial Information Strategy

Everything happens Somewhere!



Who is it about?

Where is it about?

Emerging trends in GI



GI Trends

Real-time & 3D

Fusion & Convergence

Sharing & Openness

Technologies

LBS, UAV, AR



LBSNS, Mash-up service



Open data, Big data



Values

Mobility & Reality

Effectiveness & New leading business

Accessibility & User-friendliness



The application of GI trends in Korea



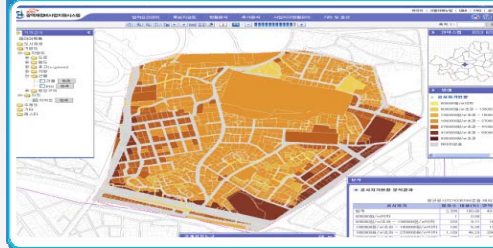
Reflection of Korea's past experiences

History of Korea's Geospatial Information

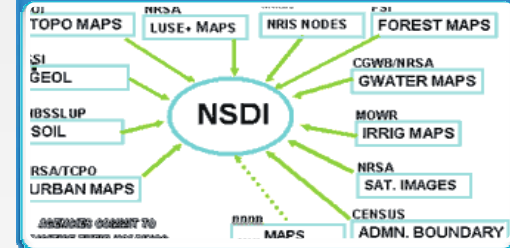
(1st) Paper Map → Digital Map



(2nd) Thematic Map



(3rd) Establishment of NSDI



1995

Establish Base Map

- Develop digital map
- Computerize cadastral map

2000

Develop Application System

- Korea Land Information System
- Underground Facilities Information System

2005

Develop Interface Integration System

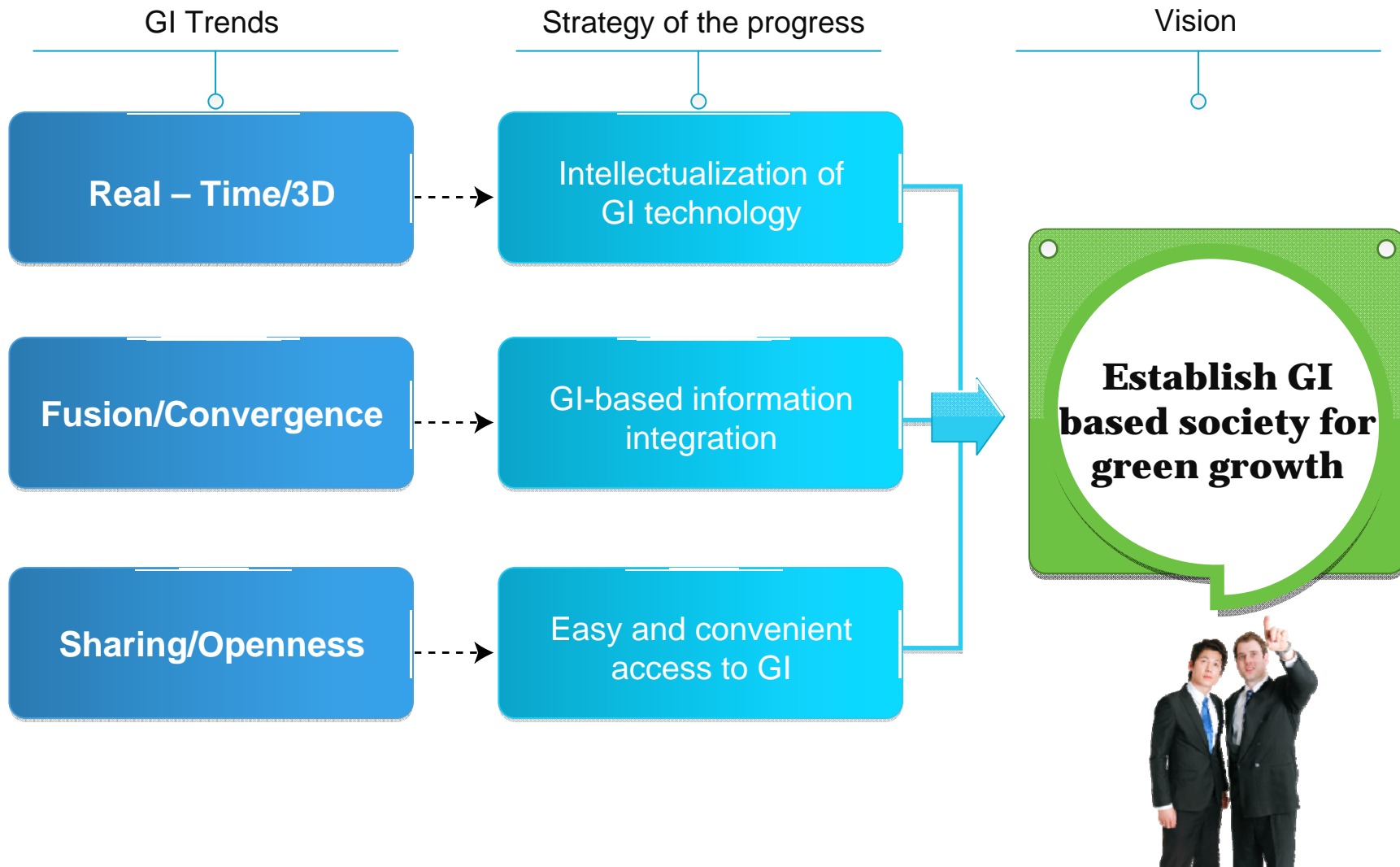
- National Geospatial Information Integration System
- Administrative Geospatial Information System

2010

Challenges

Reflection of new technologies / Sharing and Openness / User-friendly environment

Offering visions on the 4th plan regarding GI trends



User Case① : Real-time / 3D



Real-time Geospatial Information



Respond swiftly for restoration

- Procedure for responding to disaster

- take a real-time aerial photo
- construct the prompt response system by providing relevant information

Improve mobility

3D Geospatial Information



(NGII)

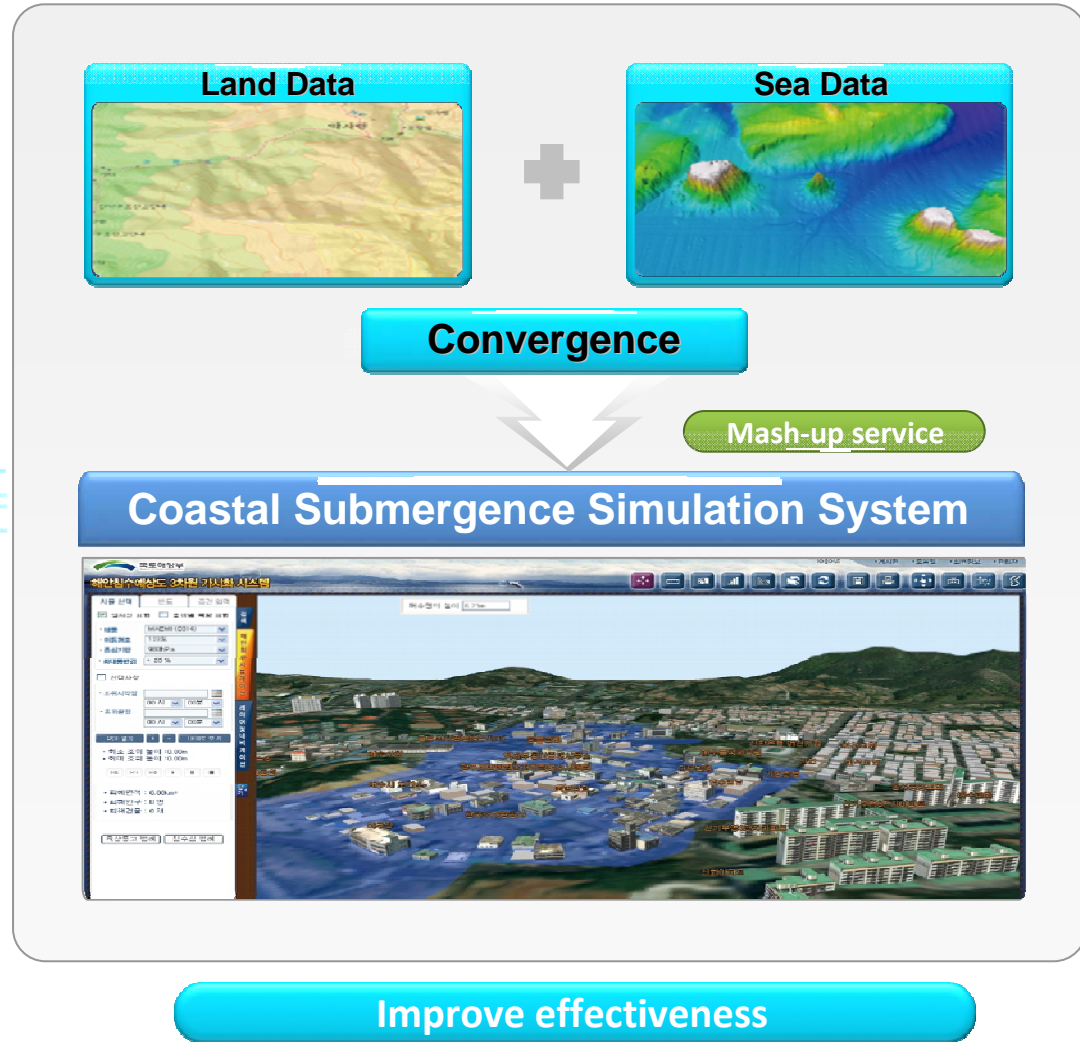
- Take an aerial photo
- Develop precise DEM
- Construct tangible 3D map

Improve reality

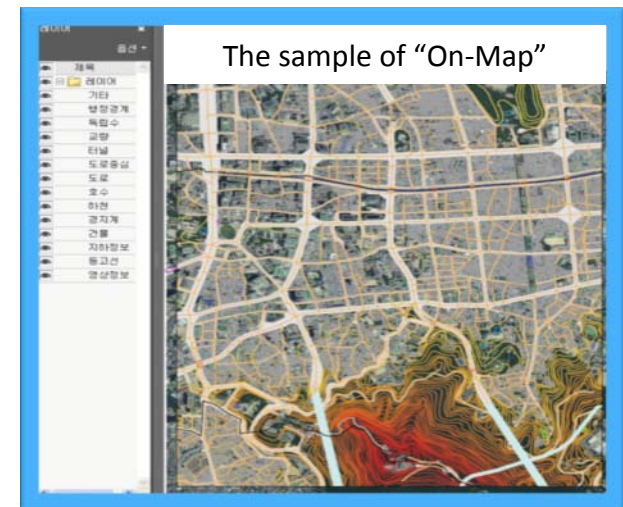
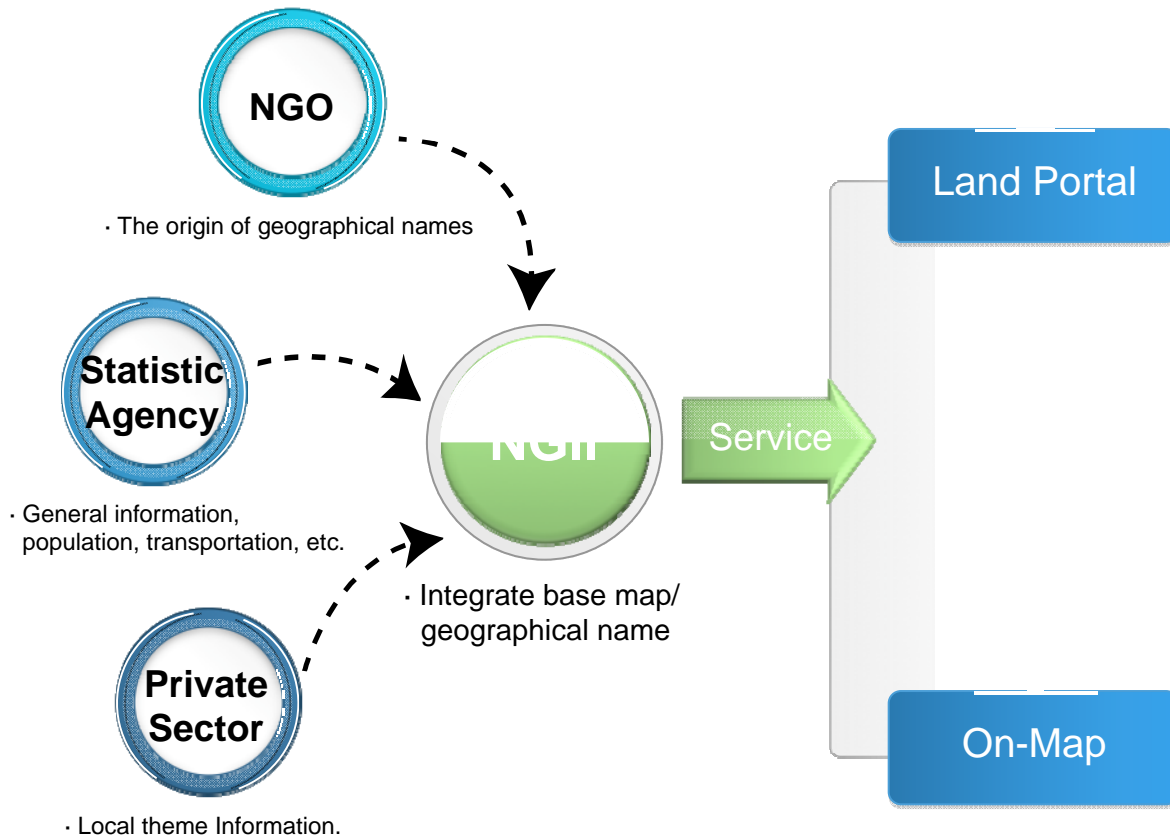
User Case② : Fusion and Convergence



Disseminate through SNS
(Twitter, Facebook, etc.)



User Case③ : Sharing and Openness



Improve Accessibility and make user-friendly environment



The direction for enhancing the global GI



The implications of the previous experiences

Set up the digital national base-map

- Develop act for national map and relevant industry promotion
 - Establish updating policy for national base-map

Enhance agility for emerging trends

- Set short & medium-term goals for reflection of technical trends

Recognize the need of open environment

- Experiences about the importance of standard and open system(web/internet)





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**THANK YOU
FOR LISTENING!**